

RECEIVED  
MAY 04 2015  
1738 E. SUNSHINE ST. SUITE 417  
SPRINGFIELD, MO

## STAGES OF CONSTRUCTION:

1. CONTRACTOR TO PERFORM DETAILED SITE INSPECTION TO LOCATE ALL EXISTING UTILITIES AND VERIFY ANY POSSIBLE CONFLICTS WITH PROPOSED IMPROVEMENTS PRIOR TO BEGINNING ANY CONSTRUCTION. CONTACT OWNER WITH ANY CONFLICTS. MONTH 1
2. INSTALLATION OF CONSTRUCTION ENTRANCE. MONTH 1
3. INSTALLATION OF EROSION CONTROL FENCE. MONTH 1
4. DEMOLITION OF EXISTING SITE IMPROVEMENTS. MONTH 1
5. REMOVAL OF EXISTING PAVEMENT ON THE SITE. MONTH 1
6. INSTALLATION OF ALL STORMWATER DRAINAGE IMPROVEMENTS. MONTH 1
7. ROUGH GRADING. MONTH 1 & MONTH 2
8. CONSTRUCTION OF NEW SITE IMPROVEMENTS. MONTH 2
9. FINAL GRADING. MONTH 3
10. PLACEMENT OF FINAL LANDSCAPING ITEMS AND SOD. MONTH 3
11. REMOVAL OF EROSION CONTROL FENCE. MONTH 3

SPECIAL NOTE:  
FIELD VERIFY SANITARY SEWER CONNECTION  
INVERT PRIOR TO ESTABLISHING FINAL FINISH  
FLOOR ELEVATION. REFER TO SITE UTILITIES PLAN.

SPECIAL NOTE:  
CONTRACTOR SHALL FIELD VERIFY PROPOSED  
GRADES MATCH EXISTING PAVEMENT AT  
DRIVEWAY ENTRANCES. CONTRACTOR SHALL  
NOTIFY ENGINEER IF DISCREPANCY OCCURS.

## CONSTRUCTION EGRESS NOTES:

1. CONSTRUCTION EGRESS SHALL BE 2' MINIMUM WIDTH AND 30' MINIMUM LENGTH AND 6" MIN THICKNESS OF STONE (1.5-3.5" COARSE AGGREGATE WITH GEOTEXTILE UNDERLINER. REFER TO THE CITY OR STATE FOR ANY ADDITIONAL REQUIREMENTS.
2. THE EXIT SHALL BE MAINTAINED IN A CONDITION WHICH WILL PREVENT TRACKING OR FLOW OF MUD ONTO PUBLIC RIGHT-OF-WAY. THIS MAY REQUIRE PERIODIC TOP DRESSING WITH 1.5-3.5 INCH STONE, AS CONDITIONS DEMAND, AND REPAIR AND/OR CLEAN OUT OF ANY STRUCTURE USED TO TRAP SEDIMENT. ALL MATERIALS SPILLED, DROPPED, WASHED, OR TRACKED FROM VEHICLES OR SITE ONTO ROADWAYS OR INTO STORM DRAINS MUST BE REMOVED IMMEDIATELY.
3. WHEELS MUST BE CLEANED TO REMOVE MUD PRIOR TO ENTRANCE ONTO PUBLIC RIGHT-OF-WAY. WHEN WASHING IS REQUIRED, IT SHALL BE DONE ON AN AREA WITH CRUSHED STONE WHICH DRAINS INTO AN APPROVED SEDIMENT TRAP OR SEDIMENT BASIN LOCATED PER THE CITY OR STATE REQUIREMENTS.

## EROSION CONTROL & MAINTENANCE PLAN NOTES:

1. RETAIN FLOATABLE WIND BLOWN MATERIALS ON SITE BY STORING ALL TRASH AND BUILDING MATERIAL WASTE IN ENCLOSURES UNTIL PROPER DISPOSAL AT OFF-SITE FACILITIES. CHECK ADJACENT AREAS DAILY AND PICK UP CONSTRUCTION WASTE MATERIALS AND DEBRIS THAT HAVE BLOWN OR WASHED OFF SITE.
2. PERMANENTLY STABILIZE ALL SURFACE AREA WITHIN AND ADJACENT TO THIS SITE THAT IS DISTURBED BY VEHICLES, GRADING AND OTHER CONSTRUCTION FOR THE PROPOSED FACILITY. STABILIZATION IS OBTAINED WHEN THE DISTURBED SURFACE IS COVERED WITH STRUCTURES, PAVING AND OR PERENNIAL VEGETATION HAVING A UNIFORM COVERAGE DENSITY OF AT LEAST 70%.
3. STABILIZATION OF ALL DISTURBED AREA IS REQUIRED BEFORE TERMINATING MAINTENANCE AND REMOVAL OF EROSION CONTROL MEASURES.
4. CONTRACTORS SHALL INSPECT POLLUTION CONTROL MEASURES AT LEAST ONCE EVERY 14 DAYS AND WITHIN 24 HOURS AFTER A STORM EVENT OF 1/2 INCH OR GREATER. DAMAGED MEASURES THAT PROVE TO BE INEFFECTIVE SHALL BE REPLACED WITH MORE EFFECTIVE MEASURES OR ADDITIONAL MEASURES WITHIN SEVEN DAYS. REPEATED FAILURE OF A CONTROL MEASURE REQUIRES INSTALLATION OF A MORE SUITABLE DEVICE TO PREVENT DISCHARGE OF POLLUTANTS FROM THE CONSTRUCTION SITE.
5. INSTALLATION OF ADDITIONAL EROSION CONTROL MEASURES MAY BE REQUIRED BY THE CITY OR STATE. CONTRACTOR TO VERIFY REQUIREMENTS PRIOR TO BEGINNING ANY WORK ON PROJECT SITE.
6. CARE SHALL BE TAKEN TO MINIMIZE THE ENCROACHMENT OF SEDIMENT INTO ALL STORM DRAIN APPURTENANCES, PUBLIC STREETS, AND ONTO PRIVATE PROPERTY UNTIL IMPERVIOUS MATERIAL (ROAD/PARKING AREA SURFACE) IS APPLIED OR UNTIL PROPOSED LANDSCAPE HAS BEEN ESTABLISHED.
7. REFER TO 101C3 FOR SILT FENCE CONSTRUCTION.
8. ALL GRASS SLOPES WHICH EXCEED 4:1 (H:V) SHALL UTILIZE CONTECH CONSTRUCTION PRODUCTS PERMANENT TURF REINFORCEMENT MATS TRM 450 OR APPROVED EQUAL. MATS SHALL BE INSTALLED PER MANUFACTURER'S SPECIFICATIONS AND STANDARDS. CONTRACTOR SHALL COORDINATE INSTALLATION INSPECTION WITH MANUFACTURER.

## GENERAL NOTES:

- A. REFER TO PROJECT MANUAL FOR ADDITIONAL REQUIREMENTS.
- B. SITE CONDITIONS BASED UPON SURVEY SUBMITTED BY OWNER. FIELD VERIFY EXISTING CONDITIONS BY DETAILED SITE INSPECTION PRIOR TO SUBMITTING BID AND BEGINNING CONSTRUCTION.
- C. FIELD VERIFY SANITARY SEWER SERVICE CONNECTION INVERT PRIOR TO ESTABLISHING FINAL FINISH FLOOR ELEVATION.
- D. COORDINATE WORK WITH OTHER SIZE RELATED DEVELOPMENT DRAWINGS.

## PIPES NOTES:

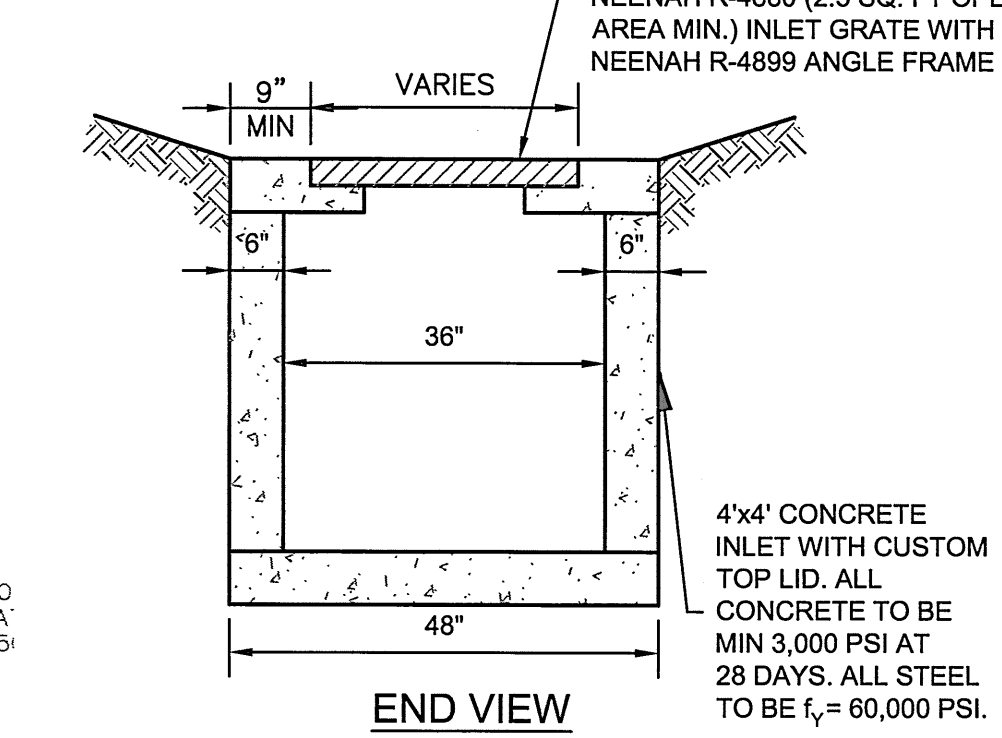
1. PIPE MATERIALS SHALL BE IN ACCORDANCE WITH AND AS APPROVED BY THE CITY OR APPLICABLE AUTHORITY. REINFORCED CONCRETE PIPE (RCP), HIGH DENSITY POLYETHYLENE (HDPE), N-12 CORRUGATED METAL PIPE (CMP) MAY BE USED AS ALLOWED BY LOCAL GUIDELINES.
2. ALL PIPE IS TO BE INSTALLED PER THE MANUFACTURER'S REQUIREMENTS AND MEET COVER REQUIREMENTS PER THE MANUFACTURER.

## RIPRAP NOTE:

PLACE RIP-RAP IN ALL PLACES AS INDICATED ON THE PLAN. THE STONE FOR RIP-RAP SHALL CONSIST OF FIELD STONE OR ROUGH UNHEWN QUARRY STONE AS NEARLY AS UNIFORM, IN SECTION AS PRACTICAL. THE STONES SHALL BE DENSE, RESISTANT TO THE ACTION OF AIR AND WATER, AND SUITABLE IN ALL ASPECTS FOR THE PURPOSE INTENDED UNLESS OTHERWISE SPECIFIED. ALL STONES USED AS RIP-RAP SHALL WEIGH BETWEEN 50-150 POUNDS EACH, AND AT LEAST 60 PERCENT OF THE STONES SHALL WEIGH MORE THAN 100 POUNDS EACH. STONES SHALL BE A MINIMUM OF 12" IN DIAMETER AND PLACED A MINIMUM OF 18" BELOW FINISH GRADE.

## 4'x4' AREA INLET

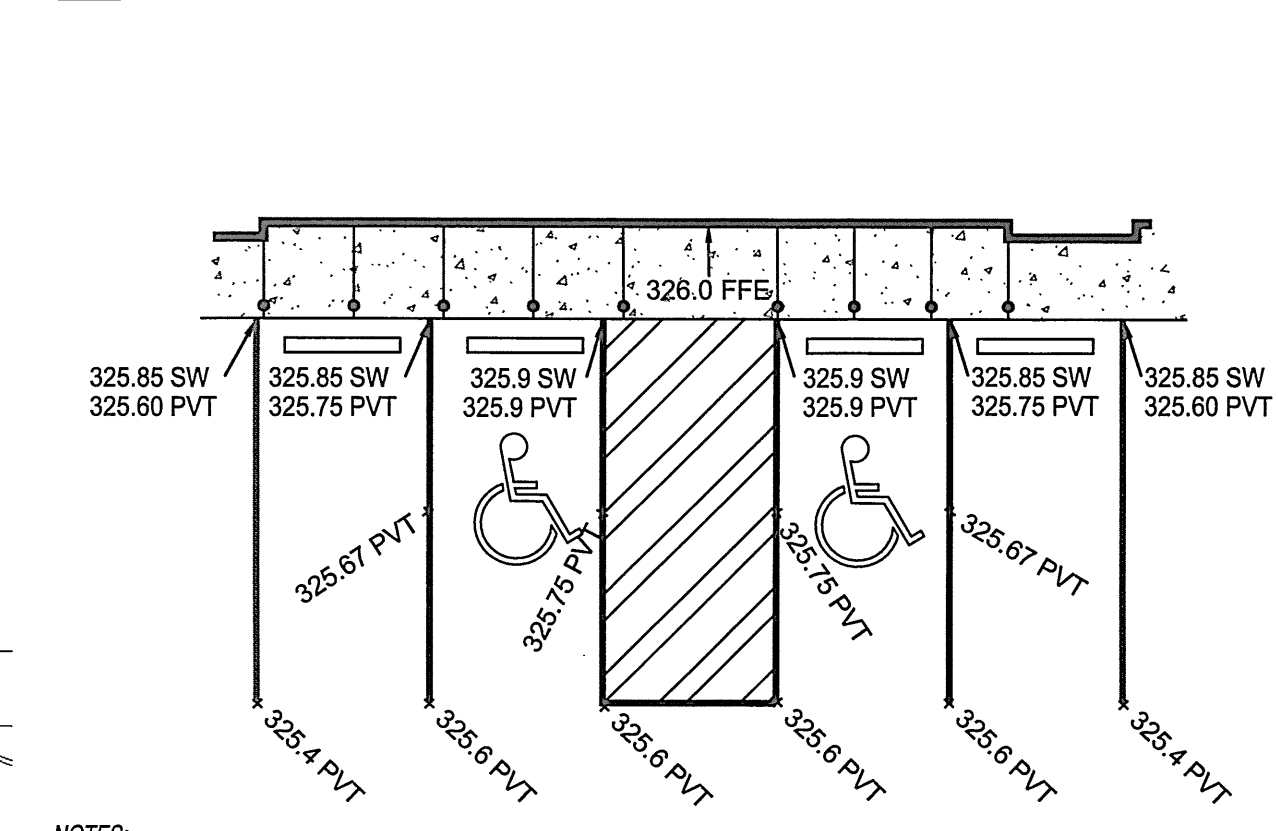
SCALE: NOT TO SCALE



NOTE: MIN. #4 BARS @ 12" O.C. (ALL WALLS VERT, HOR, & SLAB)

## 3 4'x4' AREA INLET

SCALE: NOT TO SCALE



NOTES:  
HANDICAP AREA TO BE ADA COMPLIANT.  
SLOPES SHALL NOT EXCEED 2.0% IN ANY DIRECTION IN THIS AREA.

## 2 HANDICAP PARKING DETAIL

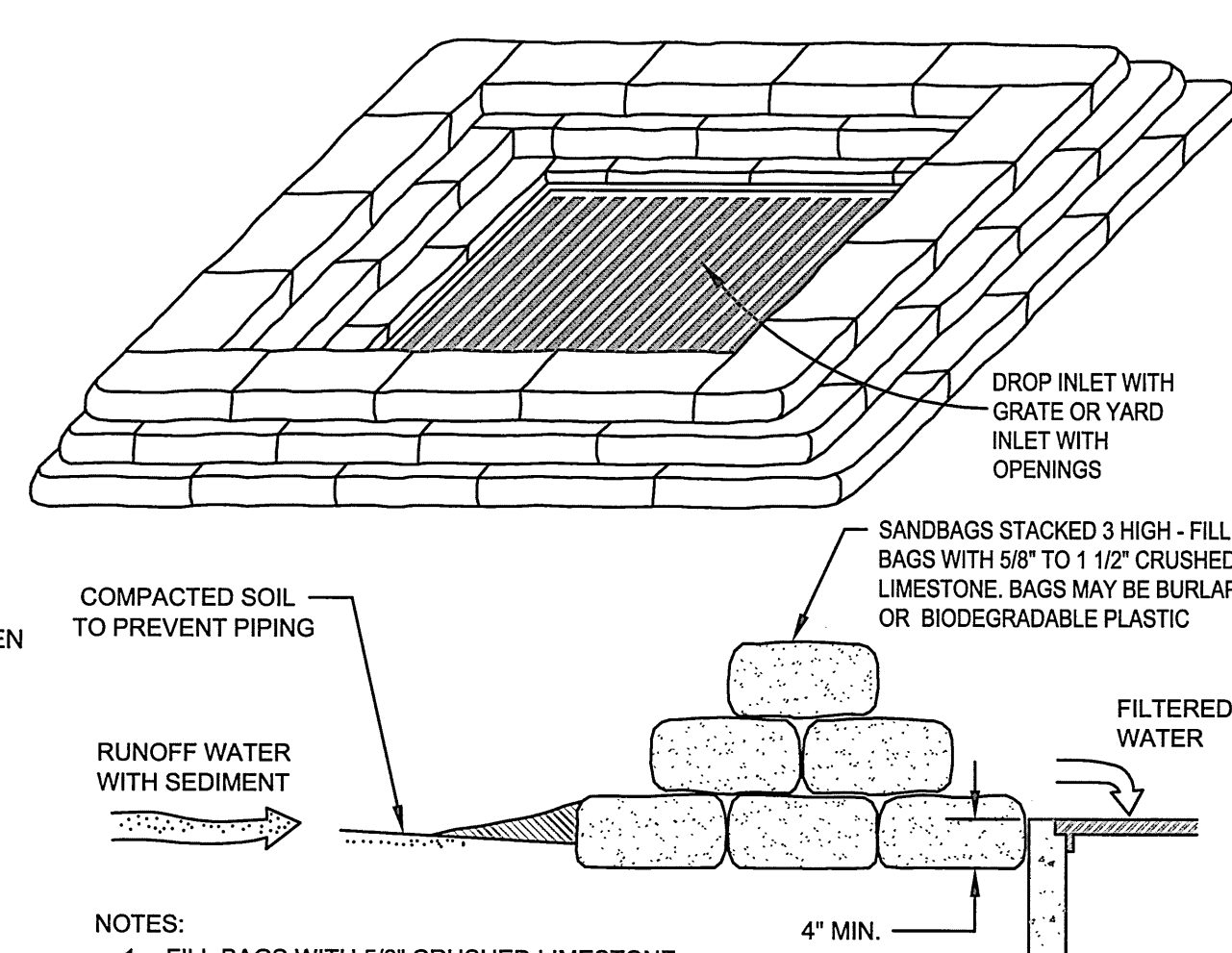
SCALE: 1" = 10'

## FLOOD ZONE:

SUBJECT PROPERTY IS DESIGNATED IN MAP NUMBER 41039C0604 F, ZONE X, AREAS DETERMINED TO BE OUTSIDE 500-YEAR FLOODPLAIN, DATED JUNE 2, 1999.

## SITE EXCAVATION REQUIREMENTS:

1. A GEOTECHNICAL ANALYSIS HAS BEEN PERFORMED ON THIS SITE. REFER TO PROJECT MANUAL.
2. FOLLOW GEOTECHNICAL ANALYSIS RECOMMENDATION FOR SITE EXCAVATION.
3. REFER TO STRUCTURAL DRAWINGS FOR BUILDING EXCAVATION REQUIREMENTS.



1. FILL BAGS WITH 5/8" CRUSHED LIMESTONE.
2. BAGS SHALL BE BURLAP OR BIODEGRADABLE PLASTIC.
3. BAGS SHALL BE INSPECTED AND REPLACED AS NEEDED.

## 4 INLET SEDIMENT FILTER

SCALE: NOT TO SCALE

## SITE GRADING

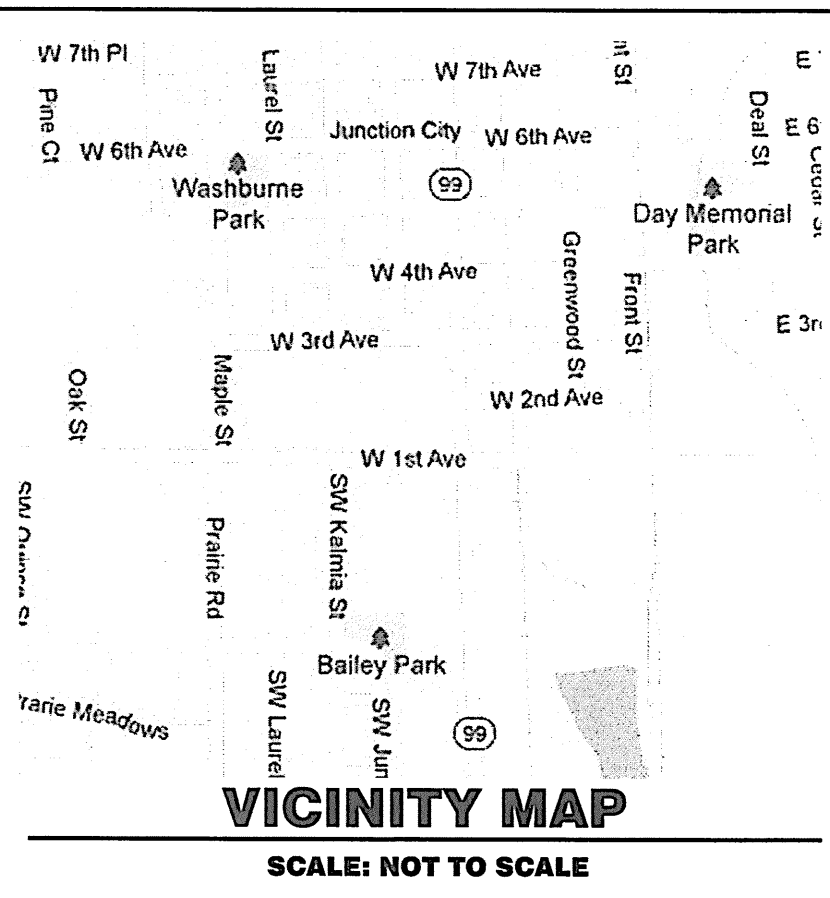
### KEY NOTES:

- C1. INSTALL 52 LF OF 12" PIPE. CONNECT TO EXIST INLET @ INV=321.5. SEAL CONNECTION WITH NON-SHRINK GROUT. REFER TO PIPE NOTES.
- C2. INSTALL 4'x4' AREA INLET. RIM=323.8, INV=321.8. REFER TO DETAIL 3/C1.
- C3. INSTALL 41 LF OF 12" PIPE. CONNECT TO EXIST INLET @ INV=321.0. SEAL CONNECTION WITH NON-SHRINK GROUT. REFER TO PIPE NOTES.
- C4. INSTALL 4'x4' AREA INLET. RIM=323.8, INV=321.2. REFER TO DETAIL 3/C1.
- C5. INSTALL 58 LF OF 12" PIPE. REFER TO PIPE NOTES.
- C6. INSTALL 4'x4' AREA INLET. RIM=324.0, INV=321.4. REFER TO DETAIL 3/C1.
- C7. INSTALL 47 LF OF 12" PIPE. REFER TO PIPE NOTES.
- C8. INSTALL 4'x4' AREA INLET. RIM=323.6, INV=321.6. REFER TO DETAIL 3/C1.
- C9. PROPOSED 10' DRAINAGE EASEMENT.
- C10. PROPOSED 10'x10' DRAINAGE EASEMENT.

## EROSION CONTROL

### KEY NOTES:

- E1. LIMITS OF DISTURBED AREA.
- E2. LIMITS OF TEMPORARY SILT SOXX. REFER TO DETAIL 10/C3.
- E3. TEMPORARY CONSTRUCTION EGRESS. INSTALL PER NOTES.
- E4. TEMPORARY INLET SEDIMENT FILTER. REFER TO DETAIL 4/C1.

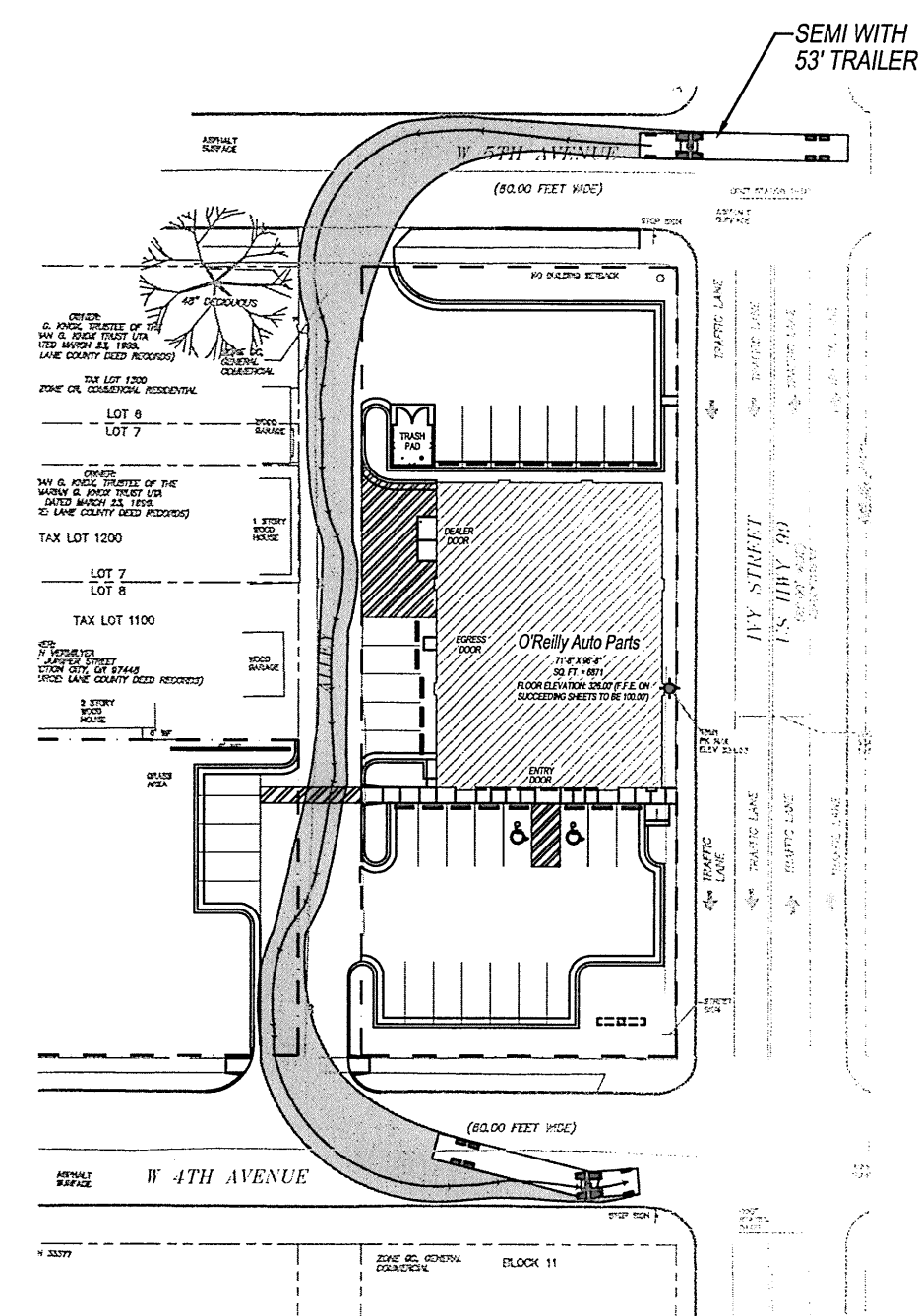


## VICINITY MAP

SCALE: NOT TO SCALE

## STORM WATER RUNOFF SUMMARY:

TOTAL PROPERTY AREA = 0.574 ACRES  
TOTAL DISTURBED AREA=0.83 ACRES < 1.0 ACRES, THEREFORE NOI NOT REQUIRED  
EXISTING IMPERVIOUS AREA=0.89 AC  
DEVELOPED IMPERVIOUS AREA=0.62 AC  
DEVELOPED IMPERVIOUS AREA IS LESS THAN THE EXISTING IMPERVIOUS AREA, THEREFORE NO DETENTION IS REQUIRED.



## 5 AUTOTURN MOVEMENT

SCALE: NOT TO SCALE

INFORMATION ON THIS DRAWING CONCERNING TYPE AND LOCATION OF UNDERGROUND AND OTHER UTILITIES IS NOT GUARANTEED TO BE ACCURATE OR ALL INCLUSIVE. THE CONTRACTOR IS RESPONSIBLE FOR MAKING HIS OWN DETERMINATION AS TO THE TYPE AND LOCATION OF UNDERGROUND AND OTHER UTILITIES AS MAY BE NECESSARY TO AVOID DAMAGE THERETO.

## SYMBOLS LEGEND

REFER TO SURVEY (SV1) FOR EXISTING CONDITION SYMBOLS LEGEND AND SITE CONTROL.			
SYMBOL	EXISTING GRADE LINES	PROPOSED NEW GRADE LINES	NEW SPOT ELEVATIONS LIST
---	EXISTING GRADE LINES	---	GRADE
---	EXISTING GRADE LINES	---	SIDEWALK
---	EXISTING GRADE LINES	---	TOP OF WALL
---	EXISTING GRADE LINES	---	TOP OF CURB
---	EXISTING GRADE LINES	---	TOP OF PAVEMENT
---	EXISTING GRADE LINES	---	NEW GRADE
---	EXISTING GRADE LINES	---	CONCRETE
---	EXISTING GRADE LINES	---	EXISTING TOP OF CURB
---	EXISTING GRADE LINES	---	EXISTING GRADE
---	EXISTING GRADE LINES	---	EXISTING PAVEMENT
---	EXISTING GRADE LINES	---	EXISTING SIDEWALK
---	EXISTING GRADE LINES	---	FLOW LINE
---	EXISTING GRADE LINES	---	TOP OF BERM
---	EXISTING GRADE LINES	---	TEMPORARY BENCHMARK
---	EXISTING GRADE LINES	---	LOCATION: PK NAIL ALONG WEST ROW OF IVY STREET - 117' N OF SE CORNER OF SUBJECT PROPERTY.
---	EXISTING GRADE LINES	---	ELEVATION = 324.93' (REFER TO SHEET SV1)

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DATE: 4-23-14  
5-01-15

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